

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P266553

Luminaire Tested: **UTLD-AF24-100-D-U-T3-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-30)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-100-D-U-T3-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6882.1 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B2 - U3 - G3

Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

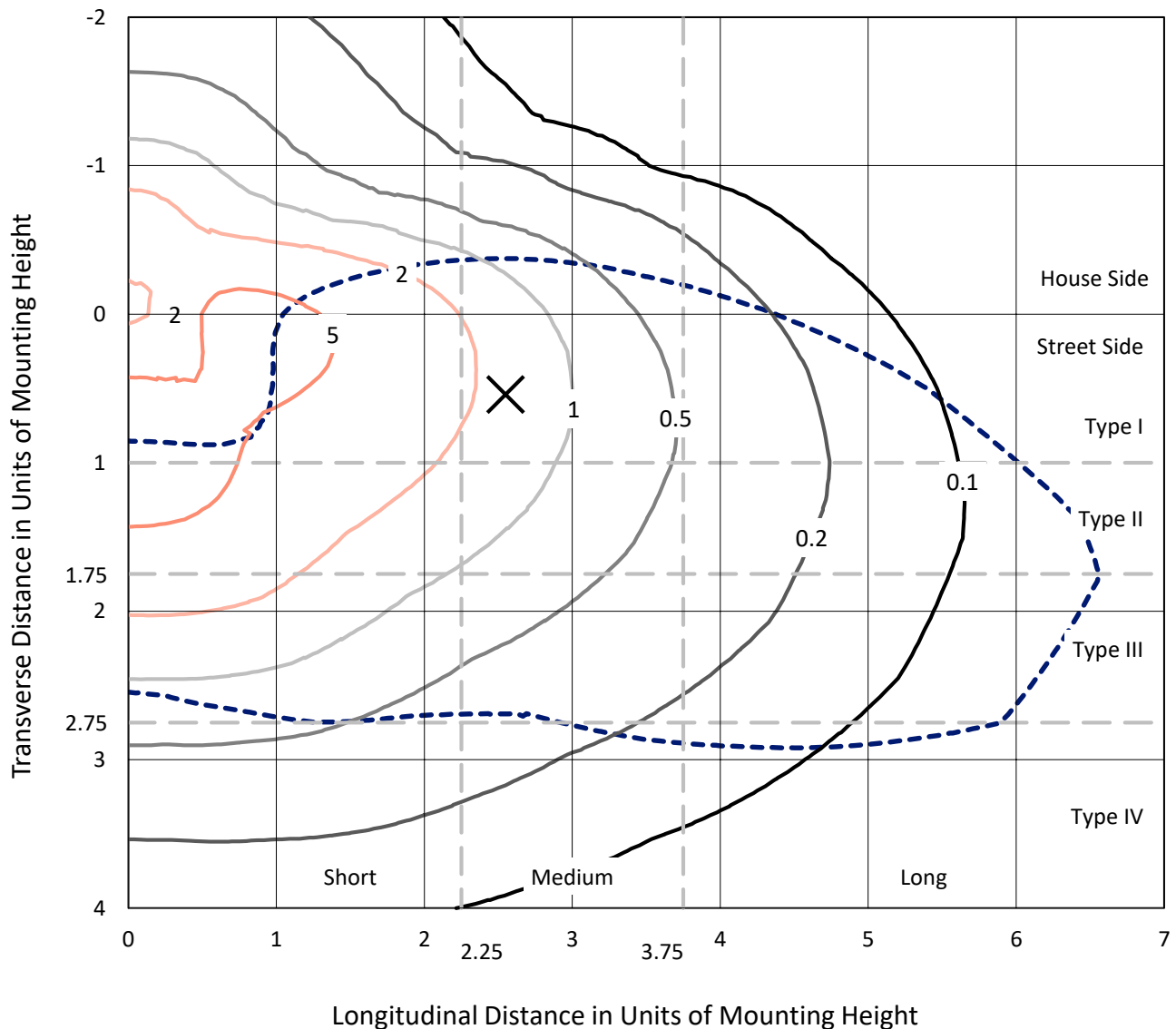


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

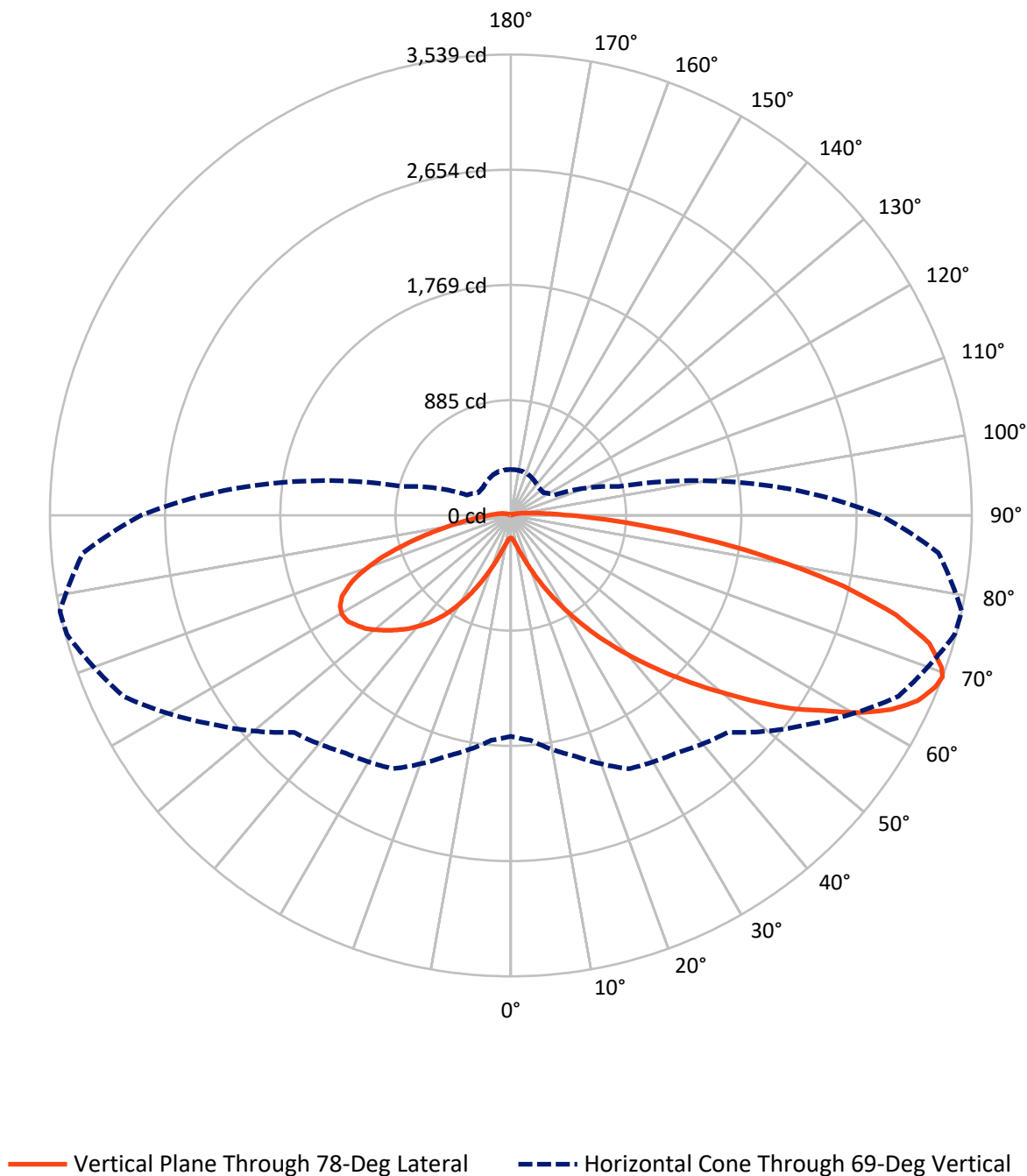


Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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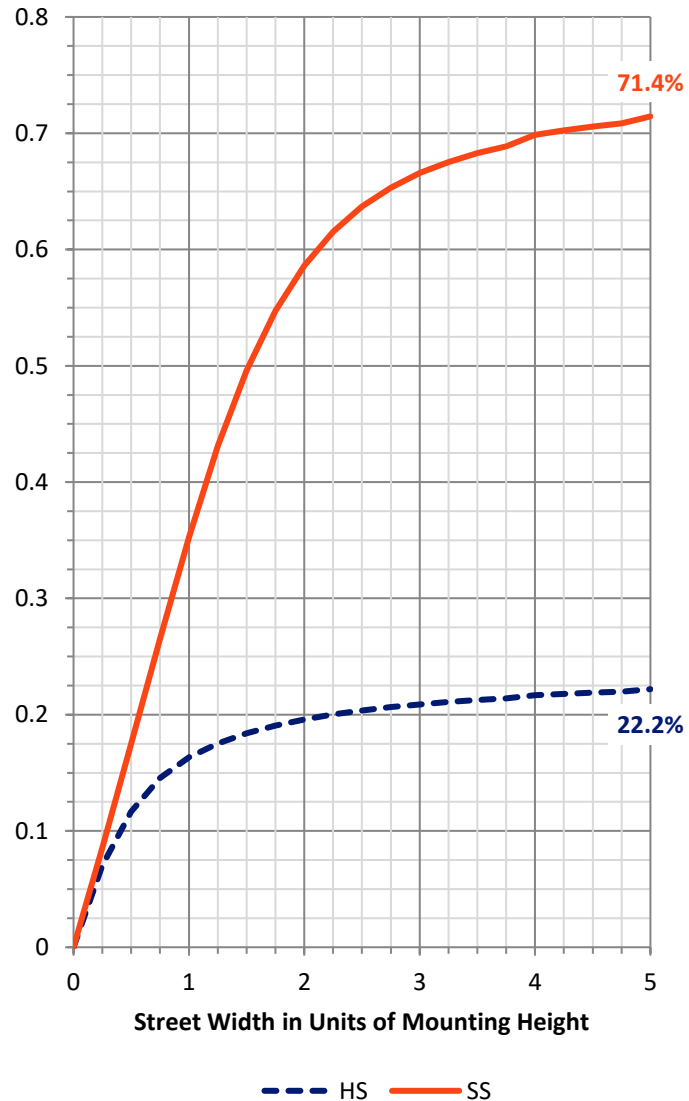
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1598.7	120.1	1718.8
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	5031.3	131.9	5163.3
	% Fixture	73.1	1.9	75.0
Total	Lumens	6630.0	252.1	6882.1
	% Fixture	96.3	3.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.1	0.3
10°-20°	88.4	1.3
20°-30°	252.1	3.7
30°-40°	535.9	7.8
40°-50°	929.1	13.5
50°-60°	1390.9	20.2
60°-70°	1655.6	24.1
70°-80°	1262.8	18.3
80°-90°	496.1	7.2
90°-100°	145.6	2.1
100°-110°	58.9	0.9
110°-120°	26.6	0.4
120°-130°	12.8	0.2
130°-140°	6.0	0.1
140°-150°	1.8	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6630.0	96.3
0°-180°	6882.1	100.0

Coefficient of Utilization



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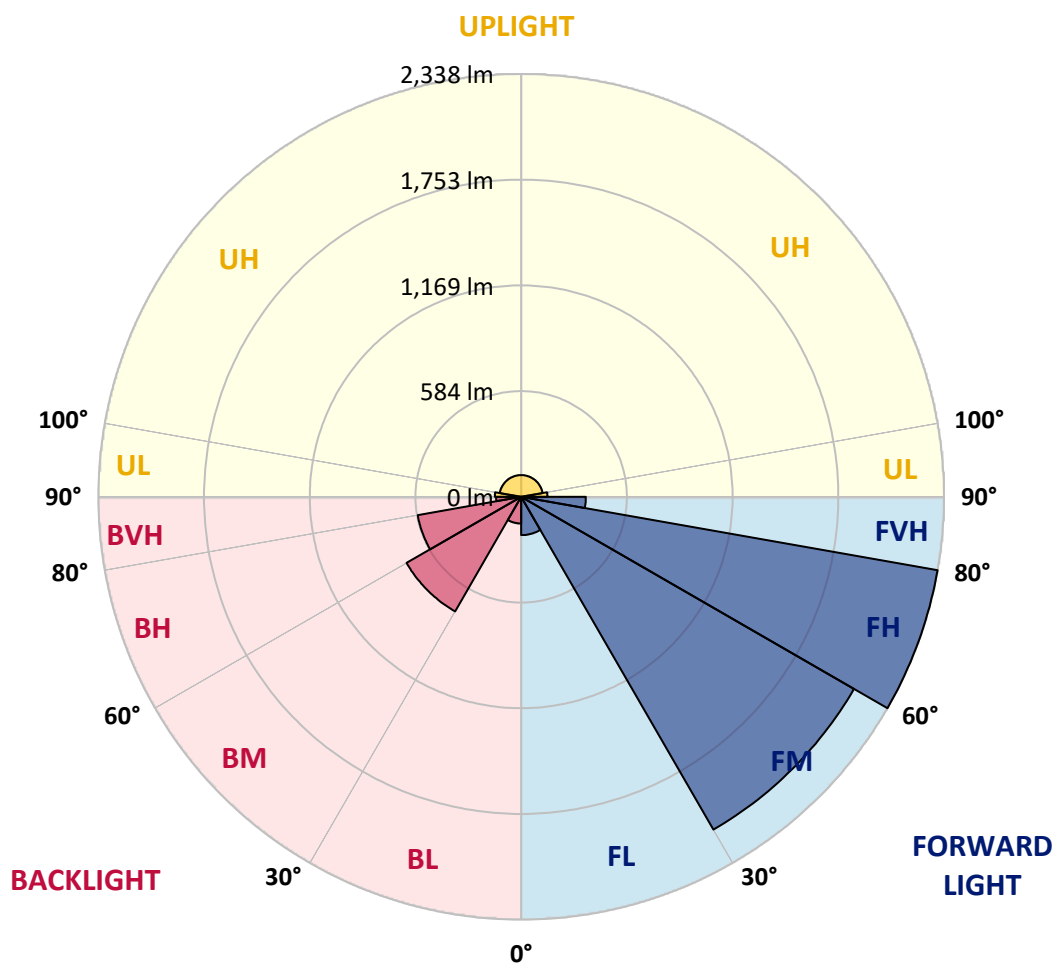
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	211.8	3.1			
FM	(30°-60°)	2124.4	30.9			
FH	(60°-80°)	2337.7	34.0			G2/5000
FVH	(80°-90°)	357.5	5.2			G3/500
BL	(0°-30°)	147.8	2.1	B1/500		
BM	(30°-60°)	731.5	10.6	B1/1000		
BH	(60°-80°)	580.7	8.4	B2/1000		G2/1000
BVH	(80°-90°)	138.6	2.0			G2/225
UL	(90°-100°)	145.6	2.1		U3/500	
UH	(100°-180°)	120.1	1.7		U3/500	

BUG Rating: B2-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	173.0	173.0	173.0	173.0	173.0	173.0	173.0	173.0	173.0	173.0	173.0
2.5°	186.8	186.8	185.9	185.9	185.1	183.3	180.6	179.0	178.1	178.1	176.3
5°	207.7	207.7	205.9	205.9	203.2	200.7	197.3	192.9	190.4	189.5	186.8
7.5°	235.4	234.5	233.6	231.1	228.4	223.3	218.9	214.7	209.3	208.5	205.1
10°	271.1	269.3	269.3	265.9	260.7	254.6	246.8	240.7	235.4	234.5	231.1
12.5°	318.0	316.3	313.7	306.7	298.9	289.3	282.3	276.3	271.1	269.3	265.0
15°	373.6	372.7	365.8	357.0	343.2	331.0	323.2	318.0	316.3	314.5	310.2
17.5°	443.1	438.8	431.8	414.5	396.2	378.8	371.9	372.7	373.6	373.6	370.1
20°	520.5	518.7	508.4	484.8	459.7	438.0	431.8	437.0	444.0	444.0	443.1
22.5°	622.0	616.9	597.8	564.8	529.1	507.5	498.6	510.0	529.1	530.0	533.5
25°	733.3	731.6	701.1	652.4	607.3	581.3	575.2	589.1	623.9	626.5	636.0
27.5°	856.8	852.3	824.6	756.0	696.8	658.5	656.0	686.5	723.8	736.8	750.8
30°	1006.1	1001.8	948.8	869.6	797.7	747.2	748.1	787.2	844.5	855.8	875.8
32.5°	1160.8	1156.5	1101.7	1002.7	907.1	844.5	846.3	904.5	970.4	984.5	1006.1
35°	1339.0	1337.1	1265.1	1143.5	1022.6	947.1	960.1	1021.8	1103.5	1126.0	1145.2
37.5°	1531.8	1512.7	1442.3	1300.7	1149.6	1066.9	1076.4	1159.1	1255.6	1265.9	1285.0
40°	1725.6	1721.2	1636.9	1477.9	1295.4	1192.9	1206.0	1298.9	1403.2	1422.3	1432.7
42.5°	1929.6	1928.0	1828.9	1655.1	1446.6	1331.9	1344.1	1450.1	1566.6	1584.8	1590.0
45°	2146.9	2134.8	2036.5	1842.0	1621.4	1479.7	1501.3	1610.9	1748.1	1763.0	1765.4
47.5°	2333.7	2318.2	2244.2	2041.8	1791.6	1639.5	1656.0	1792.5	1936.7	1952.3	1946.3
50°	2502.3	2495.3	2420.7	2241.7	1978.3	1801.1	1824.5	1973.1	2135.7	2154.8	2148.7
52.5°	2612.7	2608.3	2577.9	2405.0	2142.5	1966.2	1999.3	2160.9	2352.9	2380.7	2348.4
55°	2667.3	2667.3	2673.4	2548.3	2293.0	2122.7	2173.9	2369.4	2578.8	2617.9	2572.7
57.5°	2663.0	2657.8	2708.2	2646.5	2408.4	2248.5	2348.4	2590.9	2810.7	2826.3	2802.9
60°	2564.0	2580.6	2669.1	2680.5	2491.0	2360.7	2515.3	2796.0	3032.3	3074.0	3002.8
62.5°	2405.9	2437.1	2566.5	2641.3	2513.5	2440.7	2658.8	2975.8	3238.2	3280.8	3179.1
65°	2187.8	2219.9	2378.9	2523.2	2468.5	2467.6	2756.9	3140.0	3402.5	3432.9	3296.5
67.5°	1914.1	1924.4	2107.9	2315.6	2340.8	2426.7	2803.8	3253.0	3521.4	3516.2	3338.1
69°	1696.0	1733.4	1914.1	2146.1	2224.4	2355.4	2795.2	3284.4	3528.5	3538.9	3296.5
70°	1585.7	1592.7	1770.6	2006.3	2142.5	2291.1	2765.6	3277.3	3517.1	3509.3	3248.7
72.5°	1231.1	1245.1	1408.5	1664.6	1853.3	2077.4	2620.4	3160.1	3380.7	3360.7	3002.8
75°	878.5	901.9	1052.2	1292.9	1516.2	1798.5	2352.9	2908.1	3100.1	3054.1	2649.1
77.5°	599.4	623.9	735.9	956.7	1179.0	1486.7	1984.4	2526.7	2658.8	2611.0	2165.3
80°	385.0	401.5	490.0	664.7	876.7	1141.7	1580.5	2024.4	2141.7	2056.6	1655.1
82.5°	254.6	265.0	326.8	450.1	613.5	841.9	1172.1	1512.7	1564.8	1510.9	1159.9
85°	172.0	179.0	223.3	305.9	430.1	592.5	829.8	1052.2	1094.8	1020.0	773.4
87.5°	118.1	125.1	160.7	213.7	298.9	413.6	556.1	707.2	694.2	659.4	504.8
90°	84.4	90.4	115.5	152.1	211.1	287.5	371.0	447.4	445.6	411.9	322.3
92.5°	60.8	66.0	87.8	113.8	156.3	201.6	250.3	281.4	281.4	267.6	213.7
95°	46.1	49.5	67.0	86.9	117.3	149.5	174.6	191.2	187.7	177.2	154.7
97.5°	36.6	39.0	53.0	70.3	93.0	115.5	130.3	132.1	129.4	126.0	114.8
100°	30.5	32.2	44.2	59.1	77.3	93.9	100.8	98.2	94.7	93.9	87.8
102.5°	26.1	26.9	38.3	51.3	66.0	78.2	80.8	76.4	72.1	71.2	68.6
105°	23.4	23.4	33.0	44.2	56.5	65.1	67.0	61.8	55.7	53.9	53.0
107.5°	20.8	21.6	28.7	39.0	48.7	55.7	55.7	49.5	42.6	40.9	40.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	19.1	19.1	25.2	34.8	42.6	47.8	46.9	40.0	33.0	31.4	32.2
112.5°	17.3	17.3	22.5	30.5	37.4	40.9	39.0	32.2	26.1	25.2	25.2
115°	16.4	16.4	20.0	26.9	32.2	34.8	33.0	26.1	20.8	20.0	20.8
117.5°	14.7	15.6	18.2	23.4	27.8	30.5	27.8	21.6	17.3	16.4	18.2
120°	14.0	14.7	16.4	20.0	24.3	26.1	22.5	18.2	14.7	14.7	15.6
122.5°	13.0	14.0	14.7	18.2	20.8	21.6	19.1	14.7	12.1	13.0	14.0
125°	13.0	13.0	14.0	15.6	18.2	18.2	15.6	12.1	11.3	11.3	12.1
127.5°	12.1	12.1	12.1	14.0	15.6	15.6	13.0	10.4	9.5	10.4	11.3
130°	11.3	11.3	11.3	12.1	13.0	13.0	11.3	8.8	8.8	8.8	9.5
132.5°	10.4	10.4	10.4	10.4	11.3	10.4	8.8	6.9	7.8	7.8	8.8
135°	9.5	9.5	9.5	9.5	8.8	7.8	6.1	6.1	6.9	6.9	7.8
137.5°	8.8	8.8	8.8	7.8	6.9	6.1	5.2	5.2	6.1	6.1	6.9
140°	7.8	7.8	7.8	6.1	5.2	4.3	3.5	3.5	5.2	5.2	5.2
142.5°	6.9	6.9	6.1	5.2	4.3	2.6	1.7	2.6	3.5	3.5	4.3
145°	5.2	5.2	5.2	4.3	2.6	1.7	0.9	1.7	2.6	2.6	3.5
147.5°	4.3	4.3	4.3	3.5	1.7	0.9	0.9	0.9	1.7	1.7	2.6
150°	3.5	3.5	2.6	2.6	0.9	0.0	0.0	0.9	0.9	1.7	1.7
152.5°	2.6	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.9	0.9	0.9
155°	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.9	0.9
157.5°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	173.0	173.0	173.0	173.0	173.0	173.0	173.0	173.0	173.0	173.0	173.0
2.5°	175.4	174.6	173.8	172.0	171.1	169.4	167.8	165.9	165.9	165.9	165.1
5°	185.9	184.2	181.5	178.1	175.4	173.0	170.3	167.8	166.8	165.9	165.9
7.5°	202.5	200.7	195.6	191.2	185.9	182.4	178.1	176.3	174.6	173.8	173.8
10°	227.6	224.1	217.2	210.3	204.2	197.3	192.9	190.4	187.7	186.8	187.7
12.5°	261.5	255.5	246.8	236.3	226.0	217.2	212.0	209.3	208.5	207.7	207.7
15°	308.5	304.0	286.6	268.5	253.7	241.6	234.5	232.0	237.2	238.9	238.9
17.5°	369.3	361.5	340.5	315.3	285.0	266.7	261.5	265.9	270.2	275.4	276.3
20°	444.9	431.8	404.9	364.1	323.2	297.2	292.8	298.0	308.5	315.3	316.3
22.5°	527.3	518.7	477.0	416.2	361.5	331.0	321.5	329.3	345.8	355.4	356.3
25°	633.5	619.6	556.9	473.5	401.5	358.9	347.6	358.9	378.8	393.5	394.4
27.5°	748.9	727.3	645.5	530.9	435.3	382.3	368.3	383.1	410.0	427.5	429.2
30°	868.9	838.5	733.3	584.7	465.7	397.9	383.1	401.5	431.8	451.8	454.5
32.5°	994.9	958.3	814.1	631.7	485.8	406.7	391.0	412.7	444.9	465.7	468.3
35°	1123.4	1077.3	889.7	665.6	495.2	408.4	391.8	416.2	447.4	469.2	471.8
37.5°	1259.0	1191.2	955.7	689.0	497.0	403.2	388.3	412.7	442.2	462.3	464.0
40°	1390.1	1302.5	1011.3	699.4	491.0	395.3	379.8	404.9	430.1	444.9	446.5
42.5°	1534.5	1422.3	1060.0	699.4	478.7	385.8	370.1	393.5	413.6	424.0	424.9
45°	1681.3	1542.2	1098.3	690.7	463.0	373.6	360.6	381.4	397.1	401.5	401.5
47.5°	1850.7	1668.2	1133.9	676.0	445.6	361.5	351.0	370.1	381.4	381.4	382.3
50°	2020.9	1800.3	1160.8	655.1	425.7	351.0	343.2	361.5	370.1	364.9	364.9
52.5°	2205.2	1935.8	1186.0	628.2	407.6	341.4	338.0	357.0	363.2	355.4	353.7
55°	2391.1	2063.5	1191.2	594.3	386.6	333.6	335.3	353.7	359.7	351.0	350.2
57.5°	2590.1	2194.7	1190.3	555.2	368.3	327.5	332.8	352.8	358.9	350.2	349.4
60°	2743.9	2298.1	1162.5	514.4	351.9	321.5	332.0	351.9	358.9	351.9	351.9
62.5°	2882.9	2358.9	1110.5	470.9	336.2	317.1	329.3	350.2	357.0	353.7	353.7
65°	2946.4	2376.3	1030.4	428.3	323.2	311.9	327.5	347.6	355.4	354.6	355.4
67.5°	2907.3	2295.4	924.4	390.1	311.1	305.9	323.2	343.2	351.9	353.7	354.6
69°	2839.5	2205.2	858.4	370.1	304.0	301.6	319.7	338.8	349.4	351.9	351.9
70°	2779.4	2127.8	803.8	358.0	298.9	298.9	318.0	336.2	346.7	349.4	350.2
72.5°	2489.4	1875.9	679.5	325.8	287.5	290.2	309.3	327.5	338.8	341.4	341.4
75°	2133.0	1538.7	553.4	298.9	274.5	280.6	298.9	316.3	326.8	329.3	328.4
77.5°	1698.7	1192.9	449.2	275.4	259.8	265.9	285.0	301.6	311.9	313.7	310.2
80°	1267.7	869.6	364.1	251.0	242.5	250.3	267.6	281.4	291.9	292.8	287.5
82.5°	878.5	628.2	296.4	227.6	223.3	229.3	245.0	257.2	266.7	264.1	261.5
85°	585.6	430.9	242.5	201.6	201.6	208.5	219.8	227.6	237.2	233.6	228.4
87.5°	385.8	297.2	199.0	176.3	178.1	184.2	192.9	195.6	204.2	201.6	195.6
90°	261.5	213.7	163.3	152.1	154.7	160.7	165.1	165.1	171.1	166.8	164.2
92.5°	185.9	163.3	136.5	131.2	133.8	139.0	139.9	136.5	141.7	139.0	135.6
95°	139.9	128.5	115.5	112.9	116.4	120.0	119.0	113.8	115.5	113.8	112.9
97.5°	108.7	105.1	98.2	96.5	99.9	102.5	100.8	94.7	95.6	93.9	92.0
100°	87.8	85.2	83.5	83.5	86.0	86.9	84.4	79.1	78.2	75.5	76.4
102.5°	69.4	69.4	70.3	72.1	73.8	73.8	70.3	66.0	64.3	61.8	61.8
105°	54.7	55.7	59.1	59.9	61.8	61.8	58.2	54.7	51.3	48.7	48.7
107.5°	42.6	44.2	47.8	50.3	52.1	51.3	48.7	45.2	40.9	38.3	38.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	33.9	35.7	39.0	42.6	43.5	43.5	40.9	36.6	31.4	30.5	30.5
112.5°	27.8	28.7	33.0	35.7	36.6	36.6	33.9	30.5	25.2	24.3	24.3
115°	22.5	23.4	26.9	29.6	30.5	30.5	28.7	25.2	20.0	20.0	20.0
117.5°	19.1	20.0	22.5	25.2	26.1	26.1	23.4	20.0	16.4	16.4	16.4
120°	16.4	17.3	19.1	20.8	21.6	21.6	20.0	16.4	14.0	14.0	14.0
122.5°	14.7	15.6	16.4	18.2	19.1	19.1	16.4	13.0	12.1	12.1	12.1
125°	13.0	14.0	14.7	15.6	16.4	15.6	14.0	11.3	10.4	11.3	11.3
127.5°	11.3	12.1	13.0	13.0	14.0	13.0	11.3	9.5	8.8	9.5	9.5
130°	10.4	10.4	11.3	11.3	12.1	11.3	9.5	7.8	7.8	8.8	8.8
132.5°	9.5	9.5	9.5	9.5	10.4	9.5	7.8	6.1	6.9	7.8	7.8
135°	7.8	7.8	8.8	7.8	8.8	6.9	6.1	5.2	6.1	6.9	6.9
137.5°	6.9	6.9	6.9	6.9	6.1	6.1	4.3	4.3	5.2	6.1	5.2
140°	6.1	6.1	6.1	5.2	5.2	4.3	3.5	3.5	4.3	4.3	4.3
142.5°	4.3	4.3	4.3	4.3	3.5	2.6	1.7	2.6	2.6	3.5	3.5
145°	3.5	3.5	3.5	2.6	1.7	1.7	0.9	1.7	1.7	2.6	2.6
147.5°	2.6	2.6	2.6	1.7	1.7	0.9	0.9	0.9	1.7	1.7	1.7
150°	1.7	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.9	0.9	0.9
152.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)